

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060667.D
 Acq On : 24 Mar 2020 13:20
 Operator : JC/MD
 Sample : L2023-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:51:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	206950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	344877	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	320142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144109	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	134612	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	
35) Dibromofluoromethane	7.56	113	100442	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
50) Toluene-d8	10.08	98	424536	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.40	95	157663	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	

Target Compounds

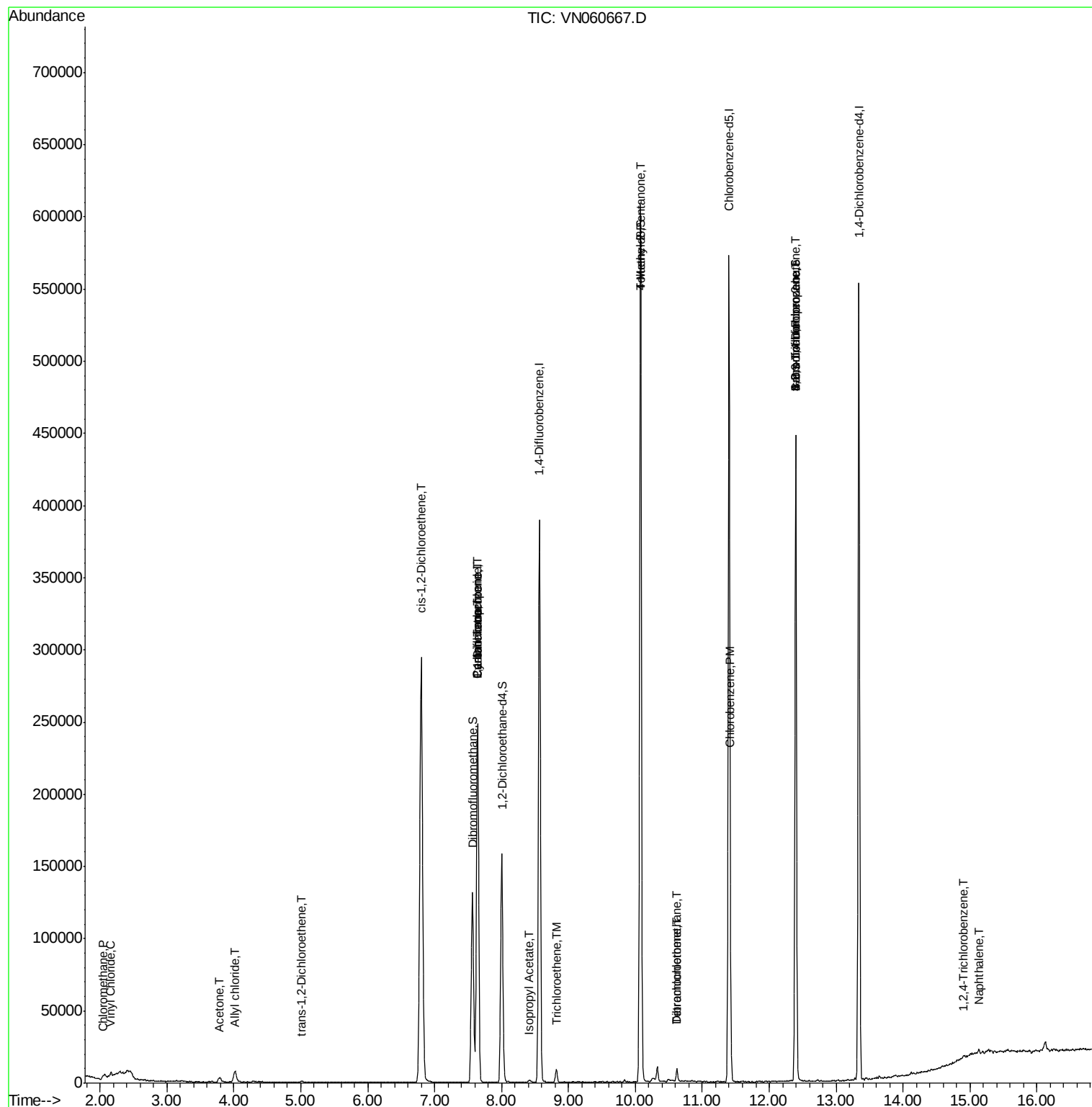
						Qvalue
3) Chloromethane	2.04	50	866	0.232	ug/l #	85
4) Vinyl Chloride	2.16	62	1752	0.599	ug/l	100
14) Allyl chloride	4.01	41	1130	0.287	ug/l #	86
16) Acetone	3.79	43	6461	6.420	ug/l	98
21) trans-1,2-Dichloroethene	5.00	96	717	0.300	ug/l #	78
27) cis-1,2-Dichloroethene	6.80	96	198505	73.149	ug/l	91
31) Cyclohexane	7.64	56	4442	0.971	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15818	4.737	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19599	6.548	ug/l #	17
43) Isopropyl Acetate	8.42	43	1202	0.202	ug/l #	55
44) Trichloroethene	8.82	130	3488	1.373	ug/l	88
51) 4-Methyl-2-Pentanone	10.08	43	1899	0.561	ug/l #	1
60) Dibromochloromethane	10.62	129	1874	0.775	ug/l #	11
64) Tetrachloroethene	10.62	164	1984	0.788	ug/l	94
65) Chlorobenzene	11.43	112	9961	1.570	ug/l	97
71) Bromoform	12.40	173	611	1.990	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	79998	25.726	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79998	66.073	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.51	75	59	Below Cal	#	3
93) 1,2,4-Trichlorobenzene	14.91	180	663	0.246	ug/l #	75
95) Naphthalene	15.13	128	1987	0.245	ug/l #	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032420\
Data File : VN060667.D
Acq On : 24 Mar 2020 13:20
Operator : JC/MD
Sample : L2023-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Mar 25 03:51:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

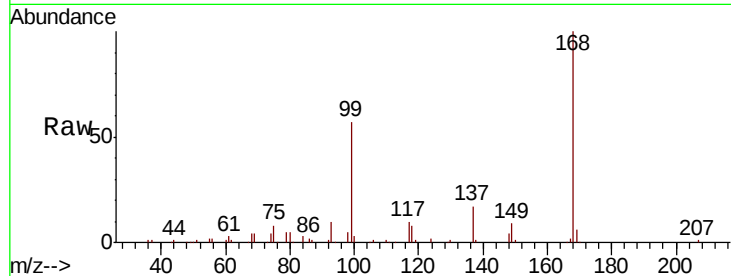
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 206950

Ion Ratio Lower Upper

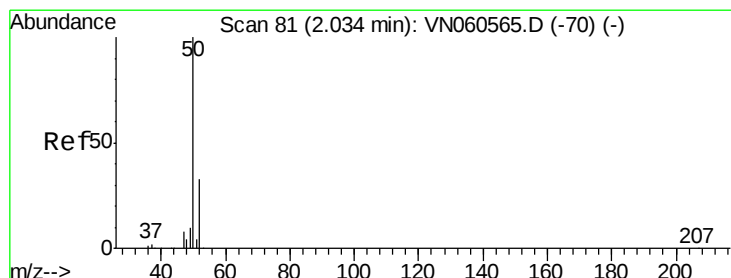
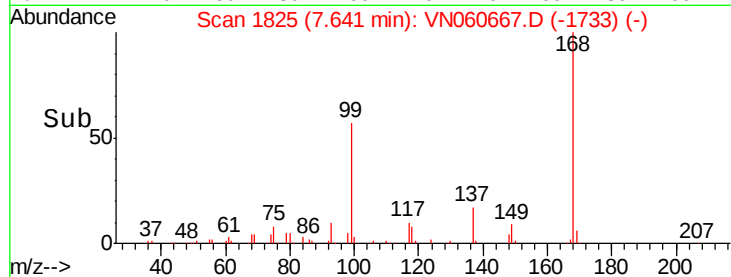
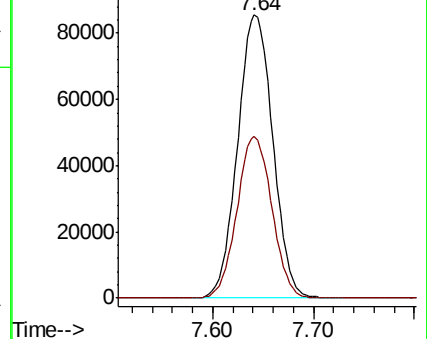
168 100

99 57.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN060565.D (-1807) (-)



#3

Chloromethane

Concen: 0.232 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060667.D

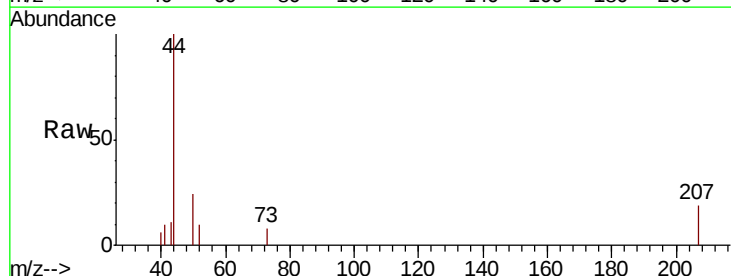
Acq: 24 Mar 2020 13:20

Tgt Ion: 50 Resp: 866

Ion Ratio Lower Upper

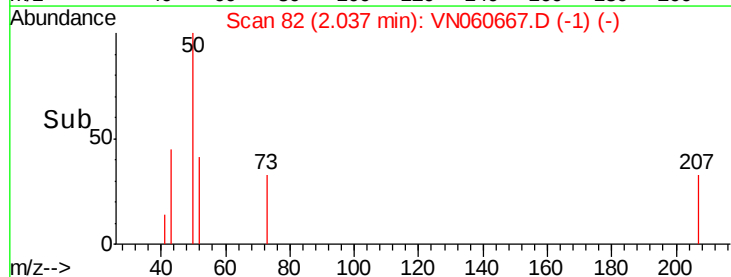
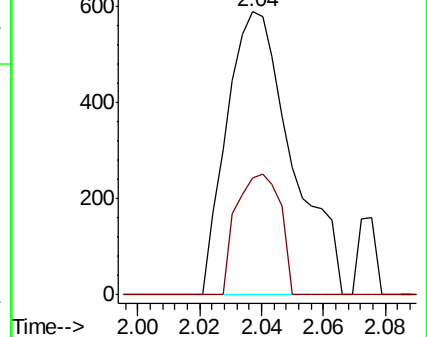
50 100

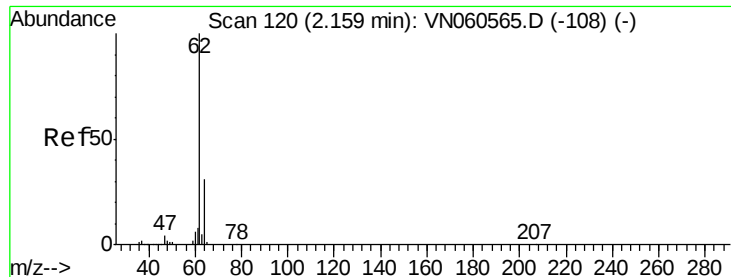
52 41.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VN060565.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN060565.D (-70) (-)





#4

Vinyl Chloride

Concen: 0.599 ug/l

RT: 2.16 min Scan# 121

Delta R.T. 0.00 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

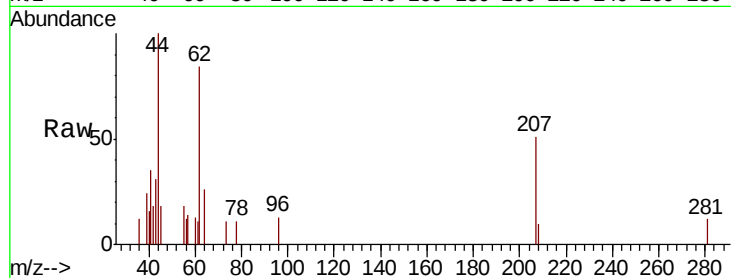
ClientSampled :

Tot Ion: 62 Resp: 1752

Ion Ratio Lower Upper

62 100

64 31.2 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VN060667.D (-108) (-)

Ion 63.90 (63.60 to 64.60): VN060667.D (-108) (-)

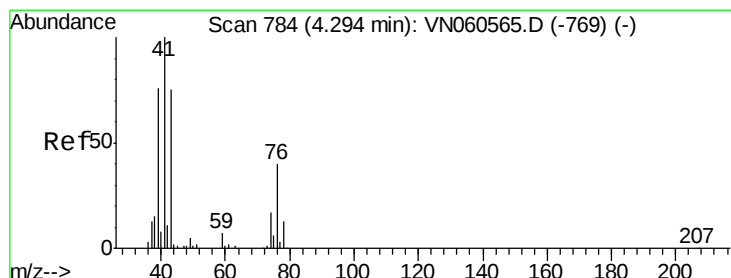
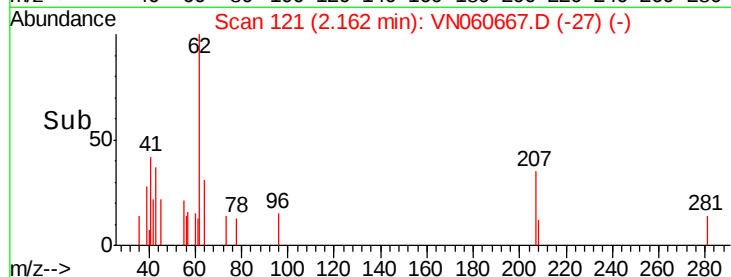
2.16

1000

500

0

Time-->



#14

Allyl chloride

Concen: 0.287 ug/l

RT: 4.01 min Scan# 697

Delta R.T. -0.28 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

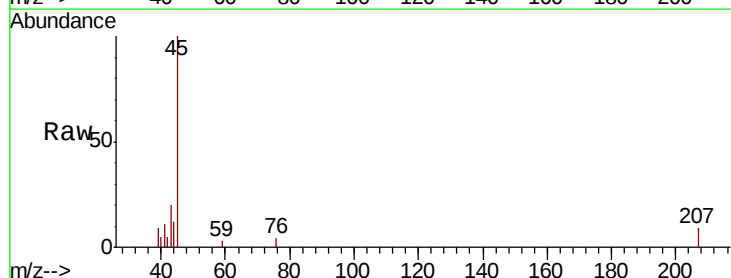
Tgt Ion: 41 Resp: 1130

Ion Ratio Lower Upper

41 100

39 90.3 57.8 86.8#

76 35.8 28.6 43.0



Abundance Ion 41.00 (40.70 to 41.70): VN060667.D (-691) (-)

Ion 39.00 (38.70 to 39.70): VN060667.D (-691) (-)

Ion 75.90 (75.60 to 76.60): VN060667.D (-691) (-)

4.01

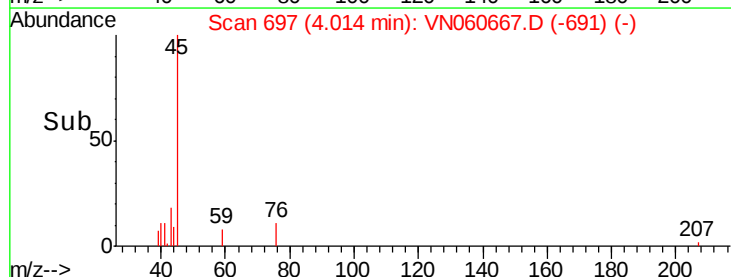
600

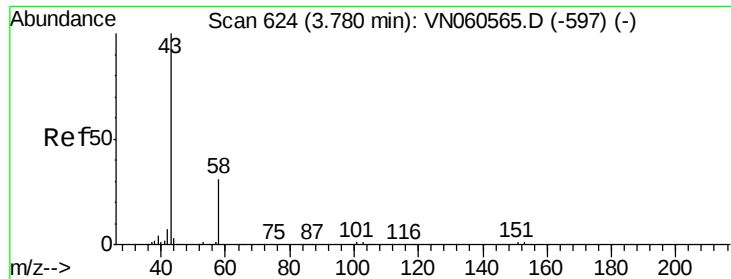
400

200

0

Time-->





#16

Acetone

Concen: 6.420 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

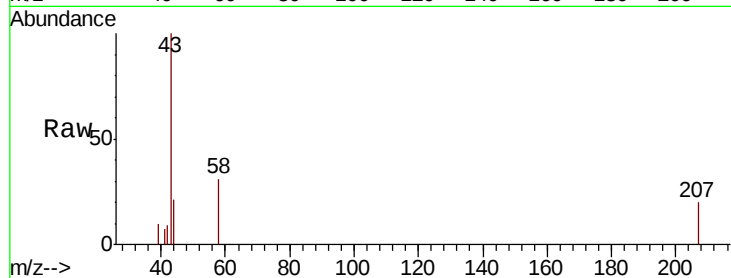
ClientSampleId :

Tot Ion: 43 Resp: 6461

Ion Ratio Lower Upper

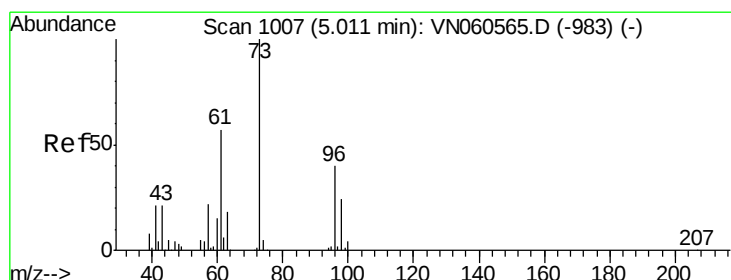
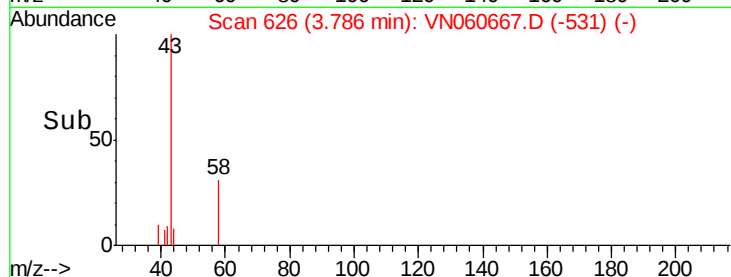
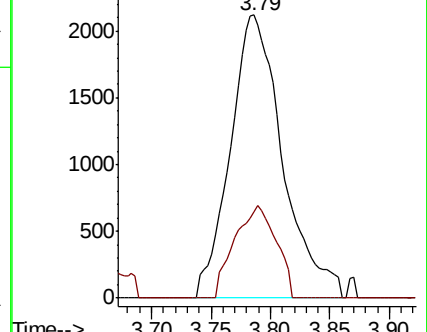
43 100

58 30.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-597) (-)



#21

trans-1,2-Dichloroethene

Concen: 0.300 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. -0.01 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

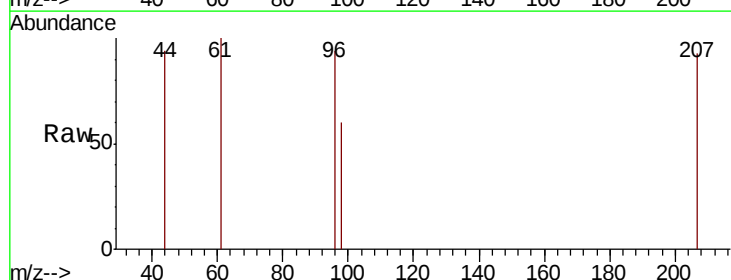
Tgt Ion: 96 Resp: 717

Ion Ratio Lower Upper

96 100

61 106.4 114.4 171.6#

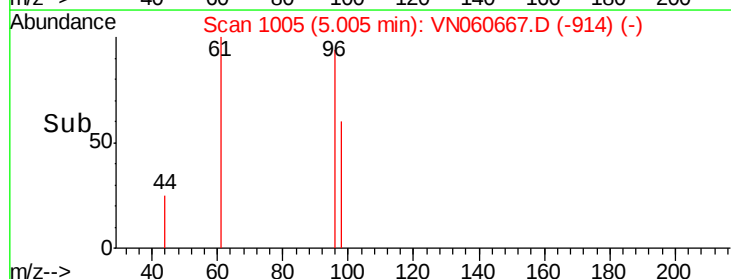
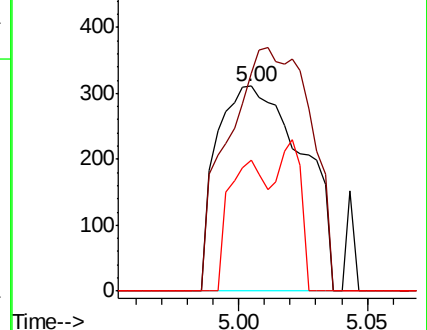
98 64.0 48.4 72.6

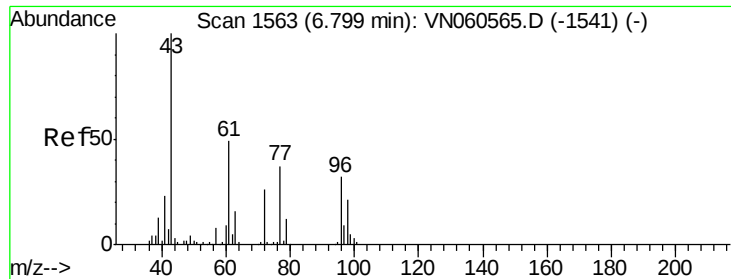


Abundance Ion 95.90 (95.60 to 96.60): VN060565.D (-983) (-)

Ion 60.90 (60.60 to 61.60): VN060565.D (-983) (-)

Ion 97.90 (97.60 to 98.60): VN060565.D (-983) (-)





#27

cis-1,2-Dichloroethene

Concen: 73.149 ug/l

RT: 6.80 min Scan# 1563

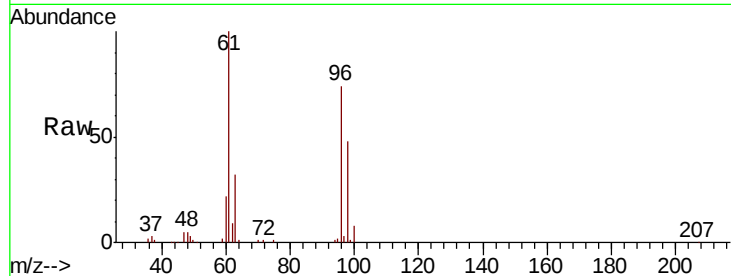
Delta R.T. -0.00 min

Lab File: VN060667.D

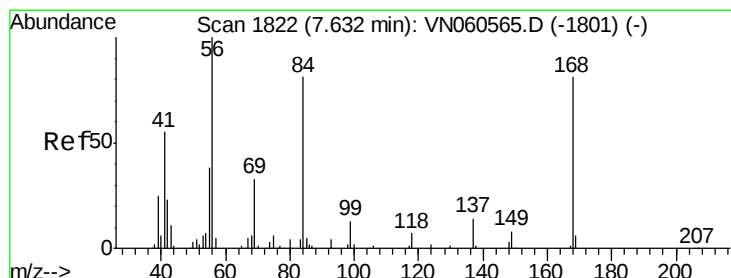
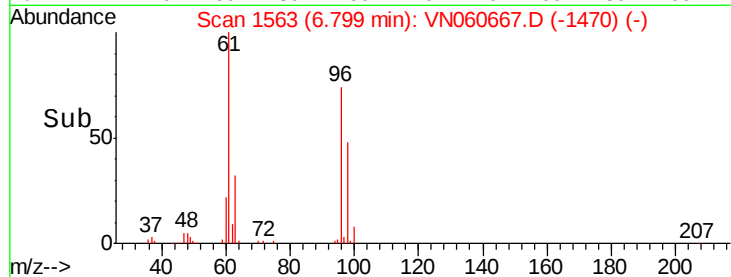
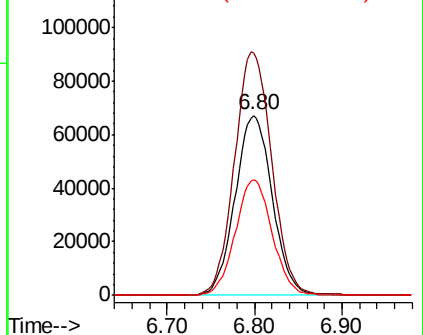
Acq: 24 Mar 2020 13:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	96	Resp:	198505
Ion	Ratio	Lower	Upper
96	100		
61	135.9	0.0	305.6
98	63.8	0.0	127.6



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.971 ug/l

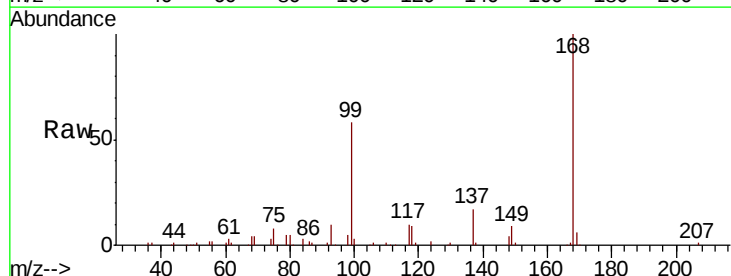
RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

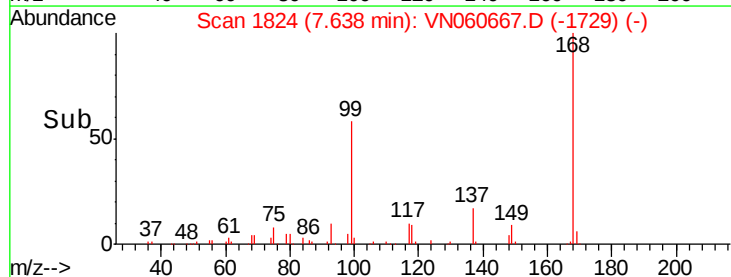
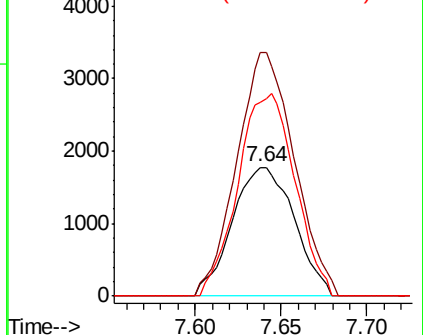
Lab File: VN060667.D

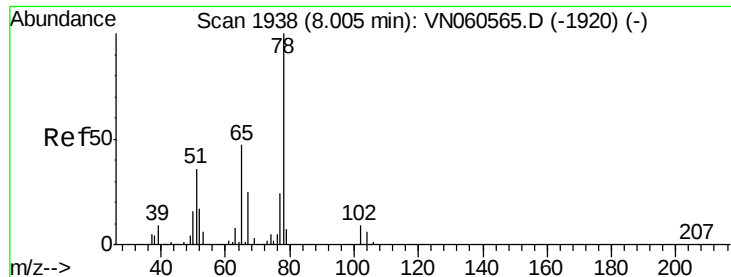
Acq: 24 Mar 2020 13:20

Tgt Ion:	56	Resp:	4442
Ion	Ratio	Lower	Upper
56	100		
69	188.8	26.6	40.0#
84	149.7	64.3	96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

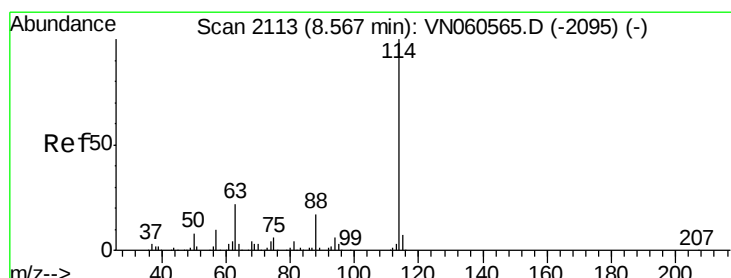
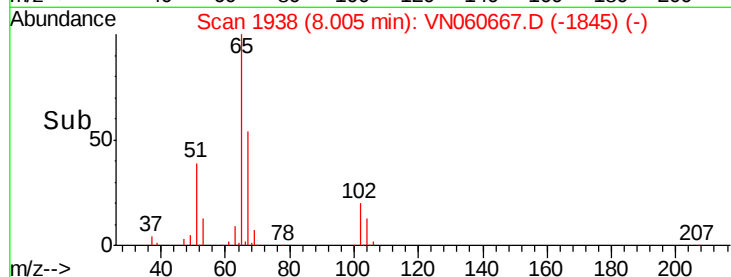
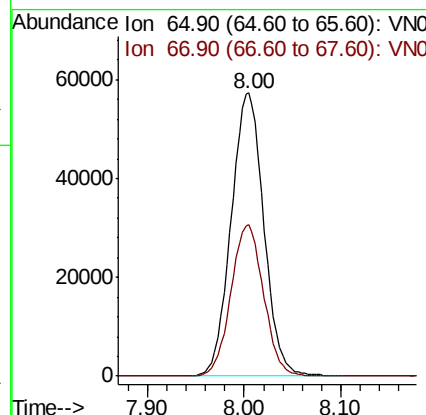
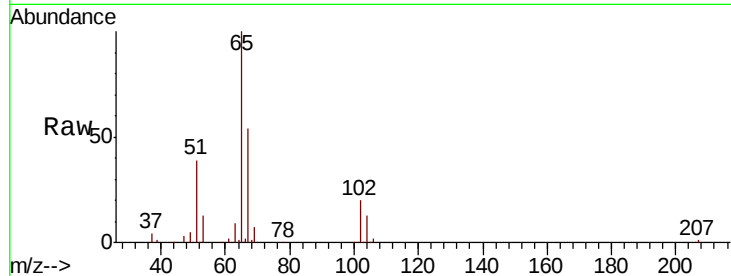




#33
 1,2-Dichloroethane-d4
 Concen: 47.383 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060667.D
 Acq: 24 Mar 2020 13:20

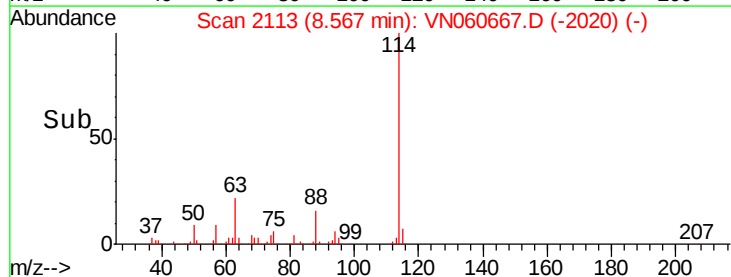
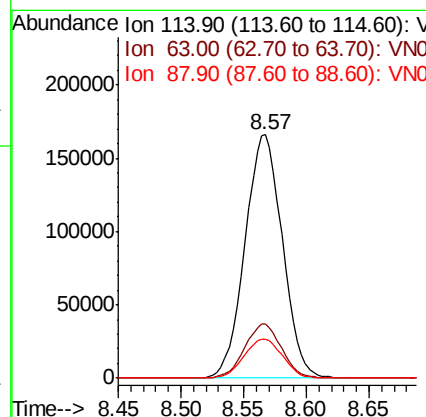
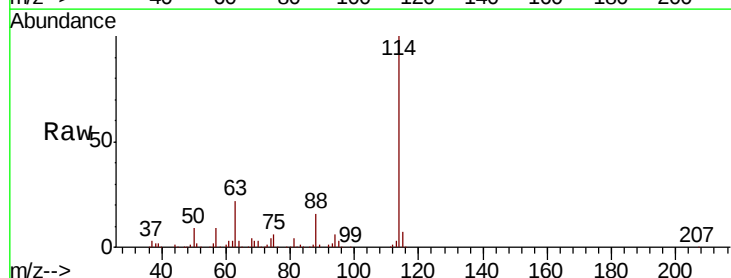
Instrument :
 MSVOA_N
 ClientSampleId :

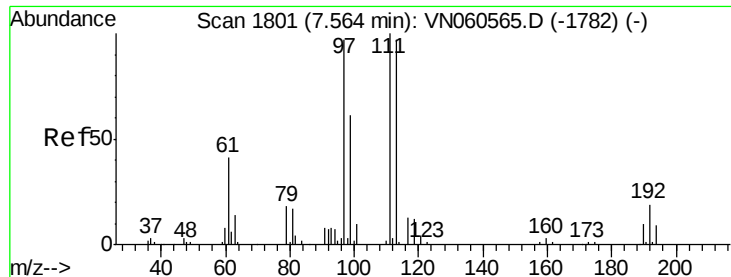
Tot Ion: 65 Resp: 134612
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060667.D
 Acq: 24 Mar 2020 13:20

Tgt Ion: 114 Resp: 344877
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.8
 88 16.2 0.0 33.0

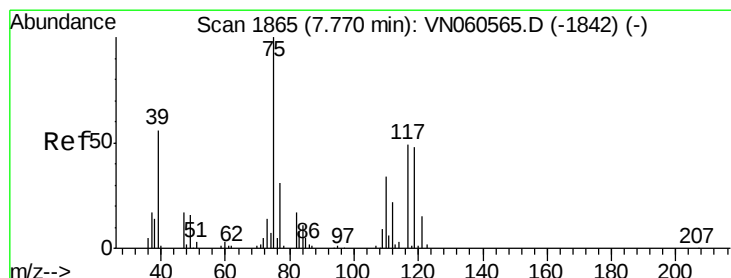
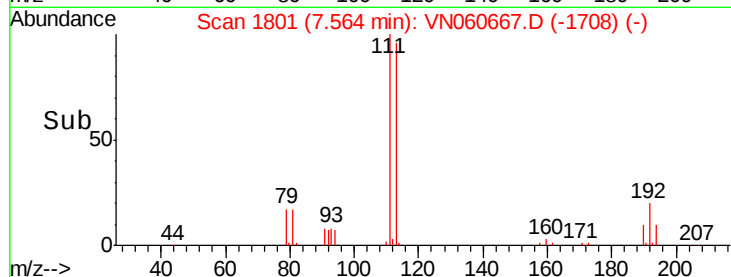
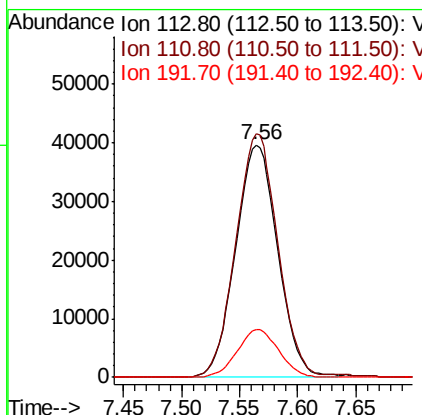
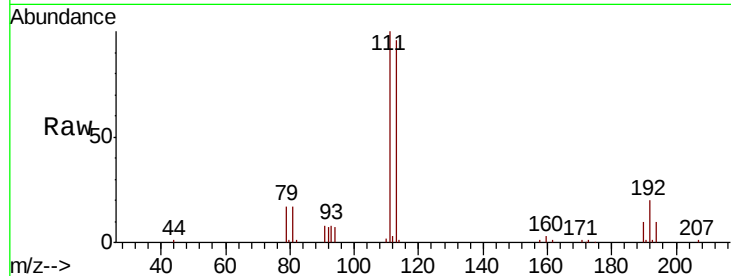




#35
Dibromofluoromethane
Concen: 48.165 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060667.D
Acq: 24 Mar 2020 13:20

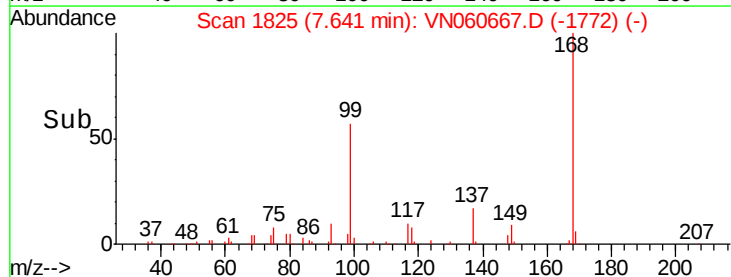
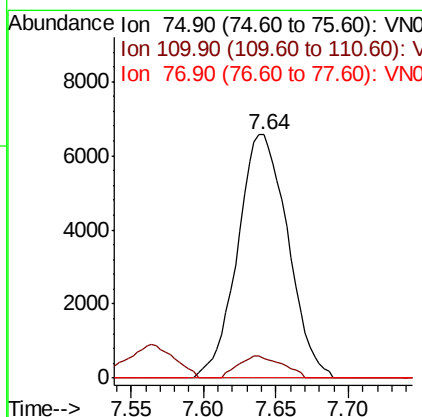
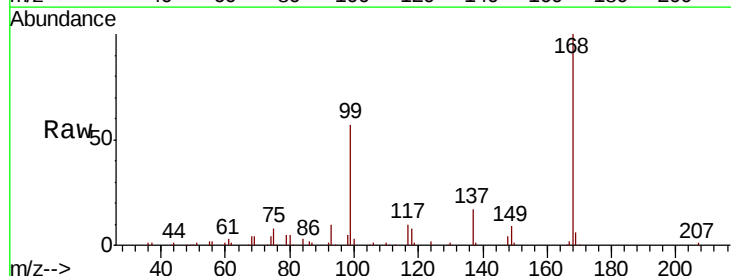
Instrument :
MSVOA_N
ClientSampleId :

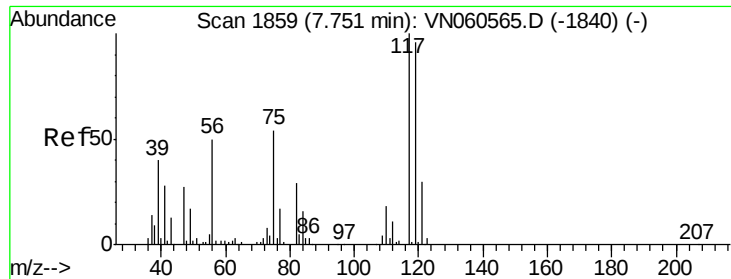
Tot Ion:113 Resp: 100442
Ion Ratio Lower Upper
113 100
111 103.9 82.9 124.3
192 20.2 15.8 23.8



#36
1,1-Dichloropropene
Concen: 4.737 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.13 min
Lab File: VN060667.D
Acq: 24 Mar 2020 13:20

Tgt Ion: 75 Resp: 15818
Ion Ratio Lower Upper
75 100
110 8.0 16.9 50.6#
77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.548 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

ClientSampled :

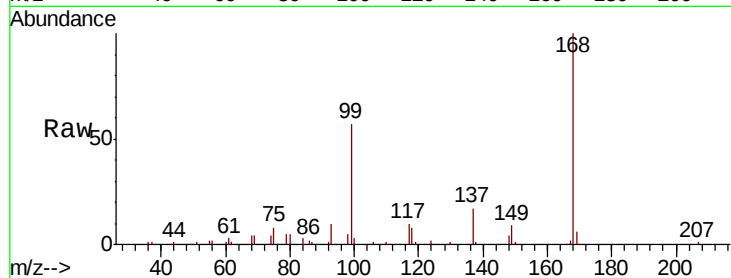
Tot Ion:117 Resp: 19599

Ion Ratio Lower Upper

117 100

119 5.7 76.2 114.2#

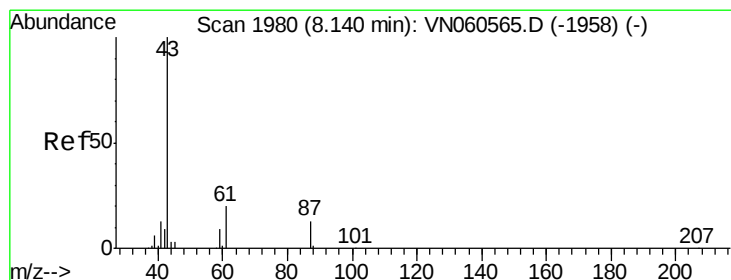
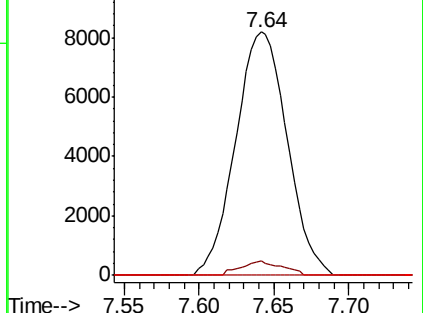
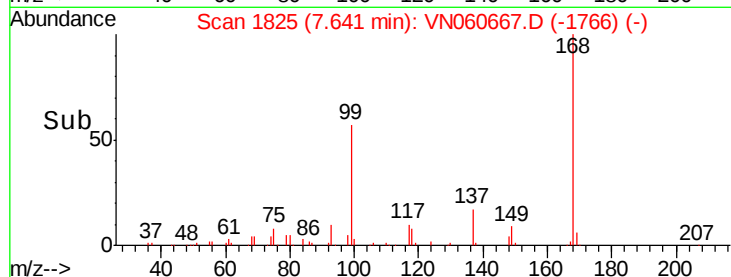
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.202 ug/l

RT: 8.42 min Scan# 2066

Delta R.T. 0.28 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

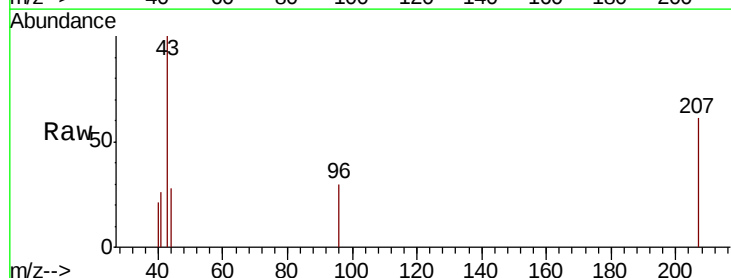
Tgt Ion: 43 Resp: 1202

Ion Ratio Lower Upper

43 100

61 0.0 20.7 31.1#

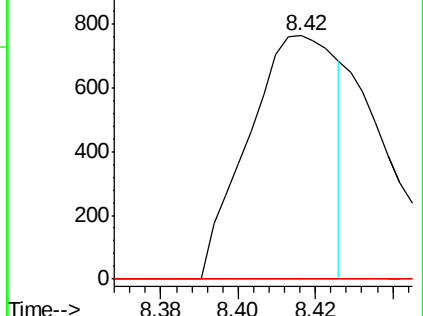
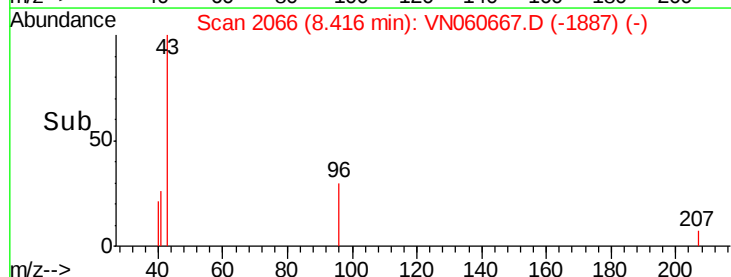
87 0.0 9.8 14.8#

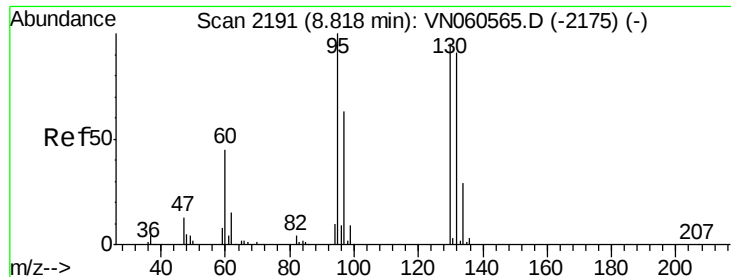


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 1.373 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

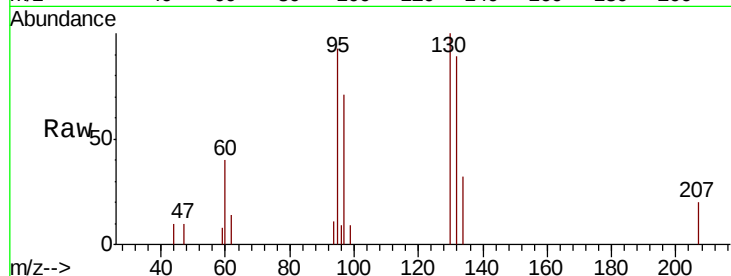
ClientSampleId :

Tot Ion:130 Resp: 3488

Ion Ratio Lower Upper

130 100

95 93.0 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): VN060565.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN060565.D (-2175) (-)

8.82

2000

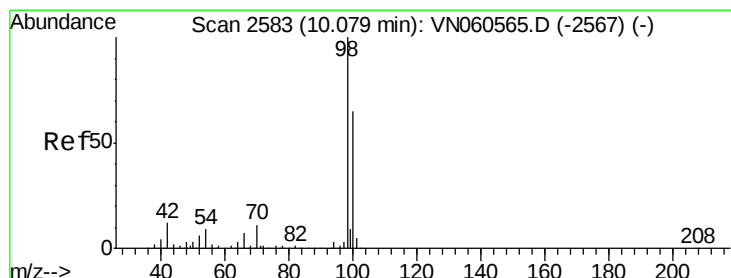
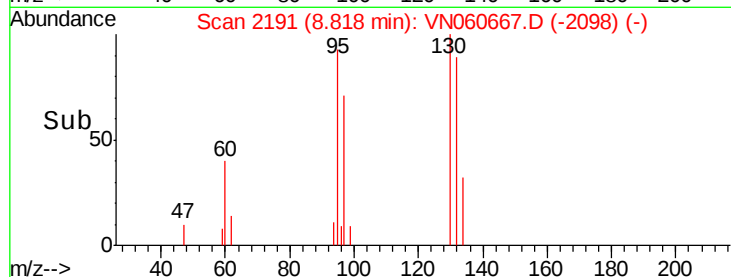
1500

1000

500

0

Time--> 8.75 8.80 8.85



#50

Toluene-d8

Concen: 49.841 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060667.D

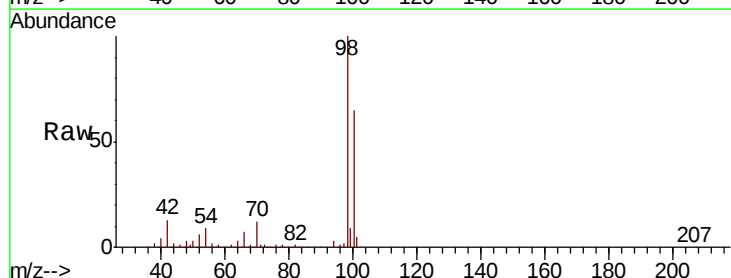
Acq: 24 Mar 2020 13:20

Tgt Ion: 98 Resp: 424536

Ion Ratio Lower Upper

98 100

100 64.8 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060565.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060565.D (-2567) (-)

10.08

250000

200000

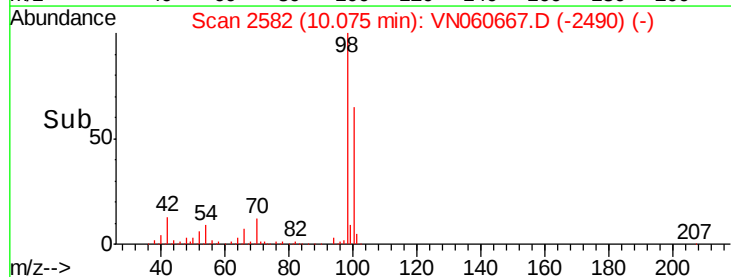
150000

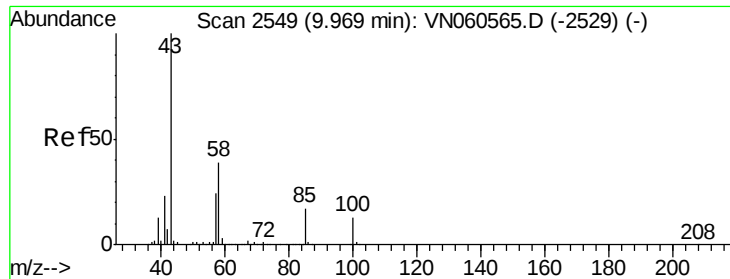
100000

50000

0

Time--> 10.00 10.10





#51

4-Methyl-2-Pentanone

Concen: 0.561 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.11 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

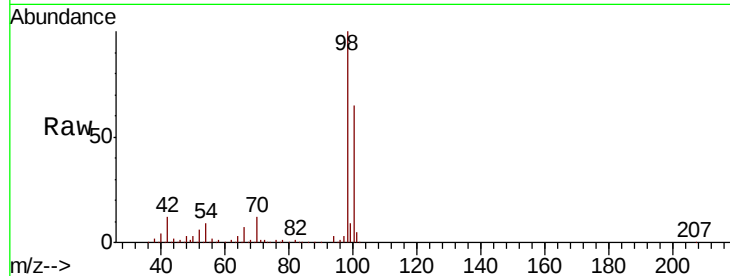
ClientSampleId :

Tot Ion: 43 Resp: 1899

Ion Ratio Lower Upper

43 100

58 181.4 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060667.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060667.D (-2529) (-)

2000

1500

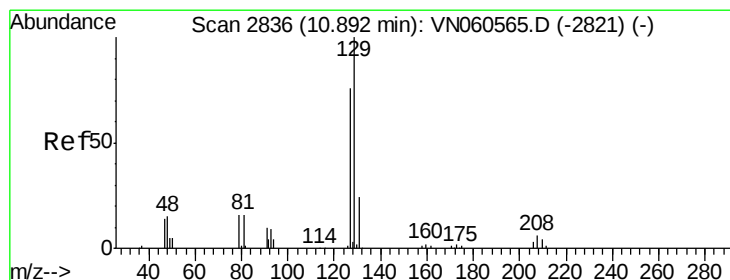
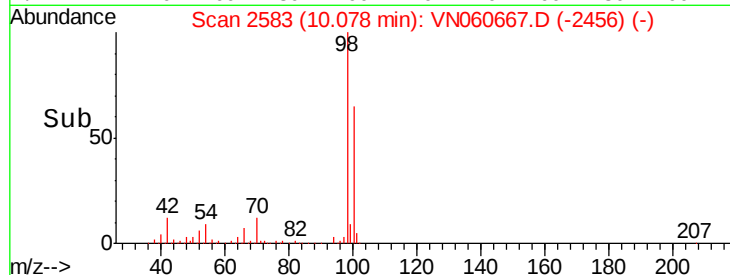
1000

500

0

10.05 10.10

Time-->



#60

Dibromochloromethane

Concen: 0.775 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.27 min

Lab File: VN060667.D

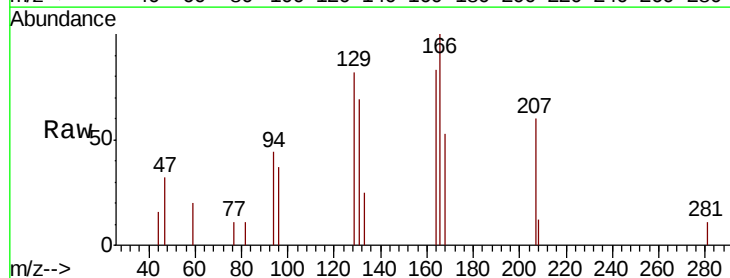
Acq: 24 Mar 2020 13:20

Tgt Ion: 129 Resp: 1874

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VN060667.D (-2821) (-)

Ion 126.80 (126.50 to 127.50): VN060667.D (-2821) (-)

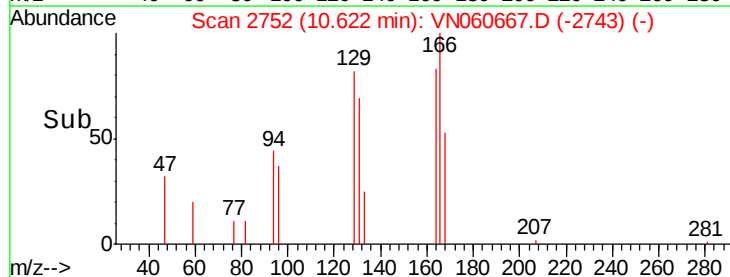
1000

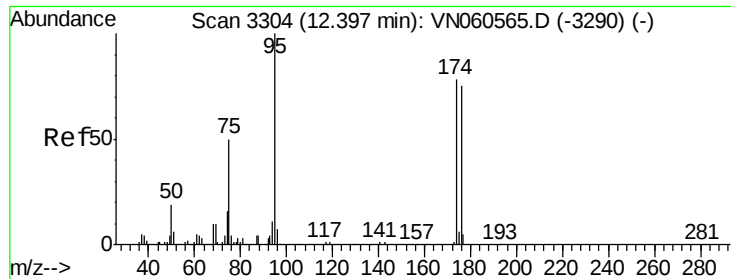
500

0

10.60 10.65

Time-->

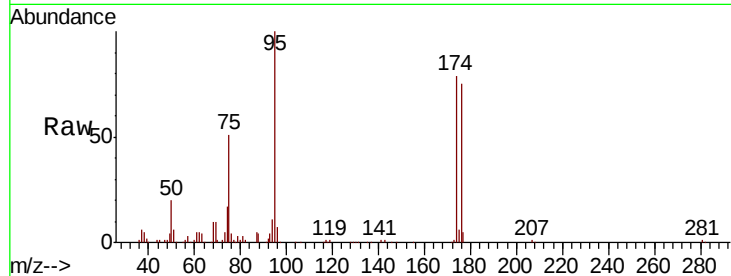




#62
4-Bromofluorobenzene
Concen: 50.506 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060667.D
Acq: 24 Mar 2020 13:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	157.6
176	75.8	0.0	150.6

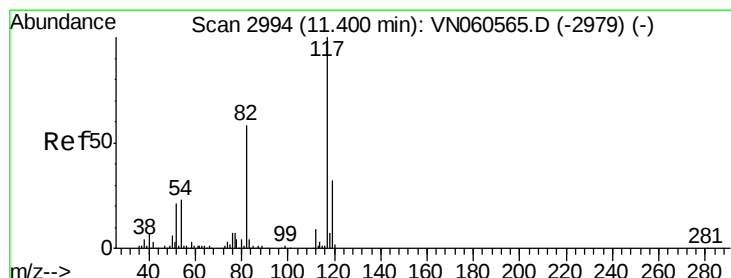
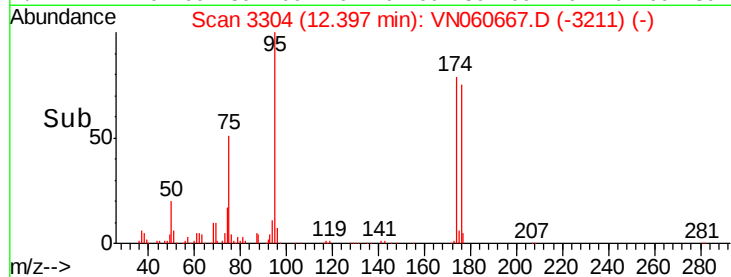
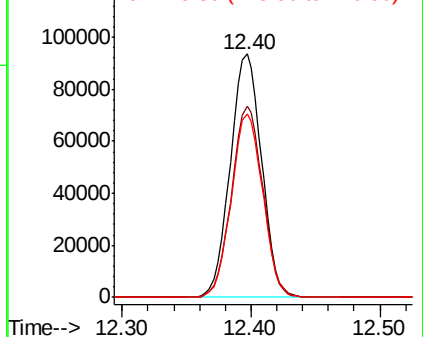


Abundance

Ion 94.90 (94.60 to 95.60): VN060667.D (-3290) (-)

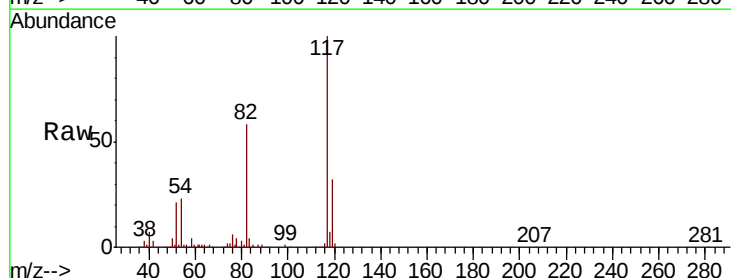
Ion 173.80 (173.50 to 174.50): VN060667.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060667.D (-3290) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060667.D
Acq: 24 Mar 2020 13:20

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.1	46.7	70.1
119	32.0	25.5	38.3

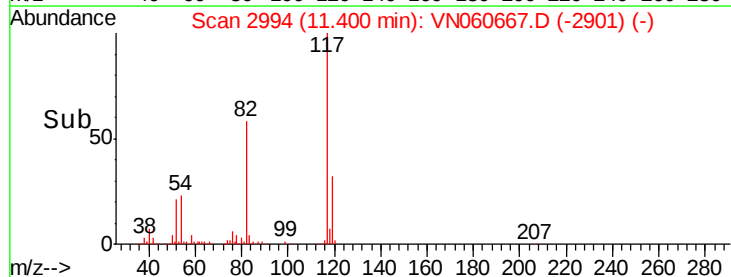
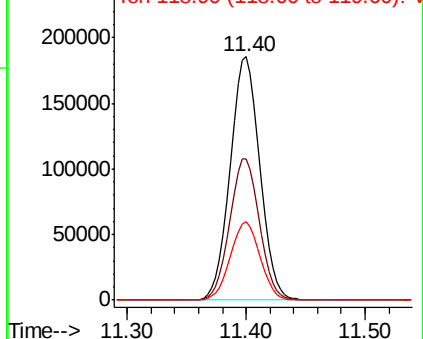


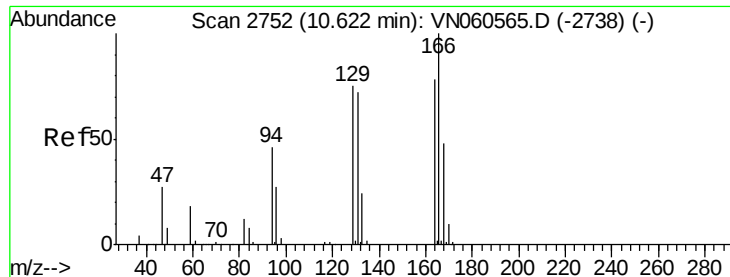
Abundance

Ion 116.90 (116.60 to 117.60): VN060667.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060667.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060667.D (-2979) (-)





#64

Tetrachloroethene

Concen: 0.788 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 1984

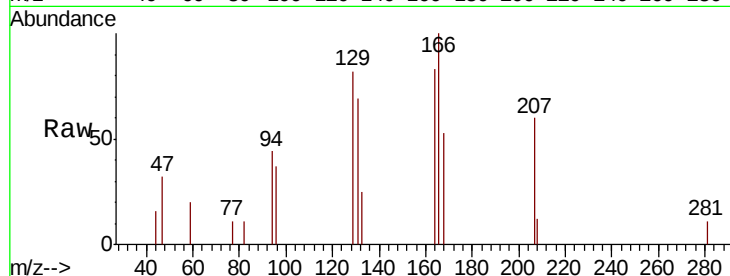
Ion Ratio Lower Upper

164 100

166 120.3 102.7 154.1

129 99.0 77.2 115.8

131 82.9 73.8 110.6

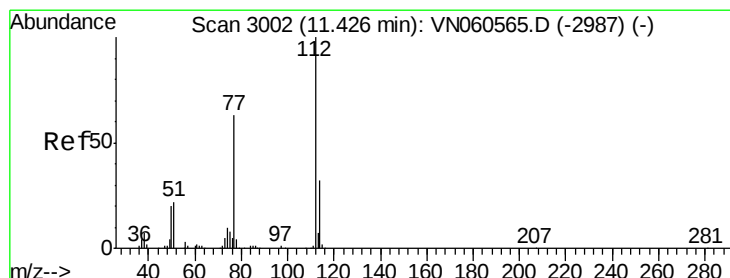
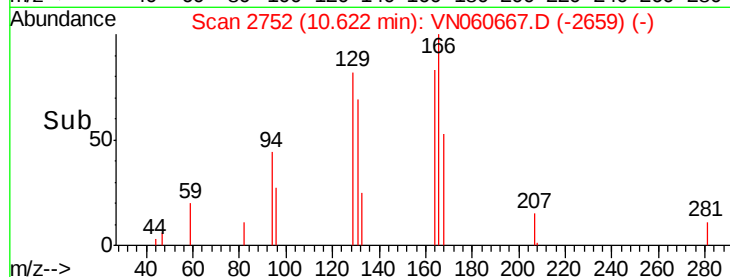
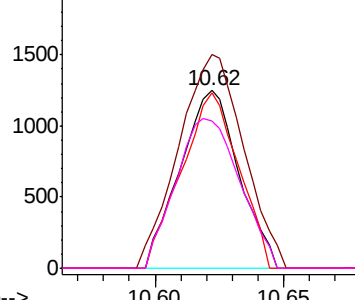


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 1.570 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.00 min

Lab File: VN060667.D

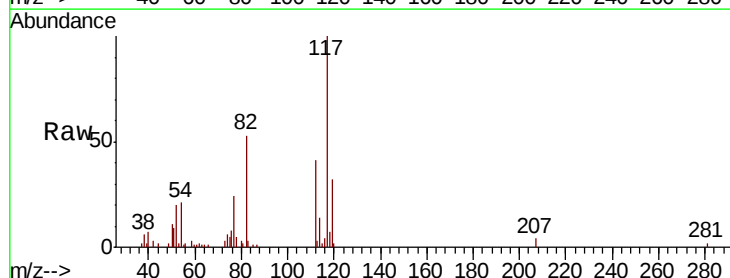
Acq: 24 Mar 2020 13:20

Tgt Ion:112 Resp: 9961

Ion Ratio Lower Upper

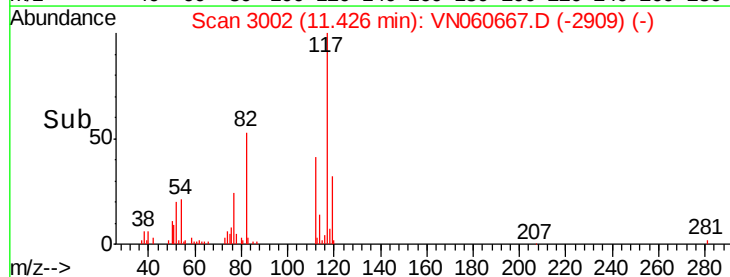
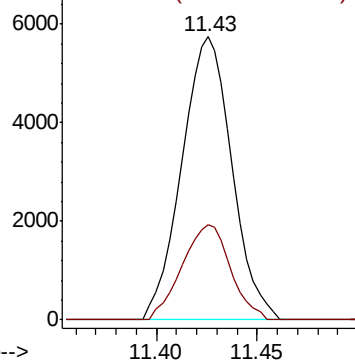
112 100

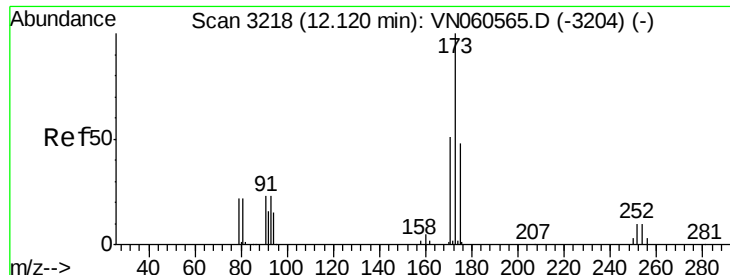
114 33.9 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 1.990 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

ClientSampleId :

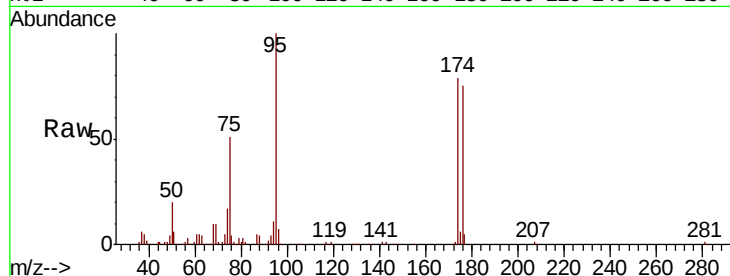
Tot Ion:173 Resp: 611

Ion Ratio Lower Upper

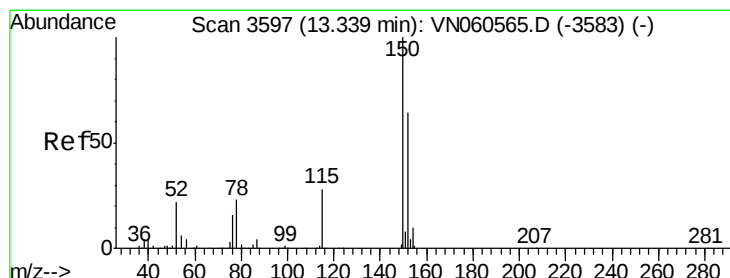
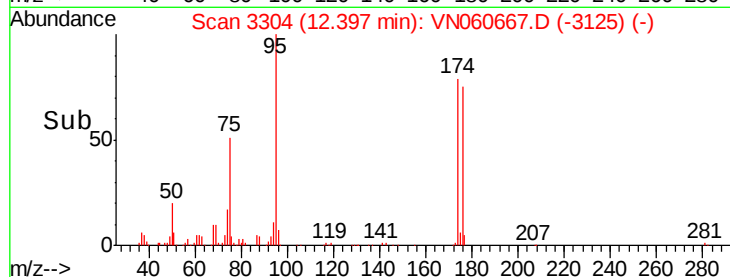
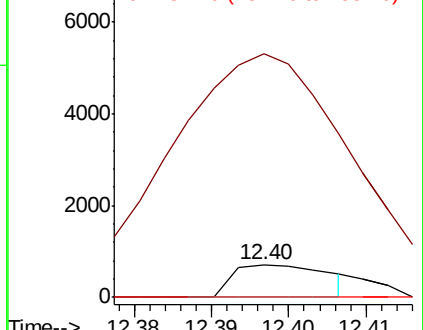
173 100

175 1253.5 24.1 72.4#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

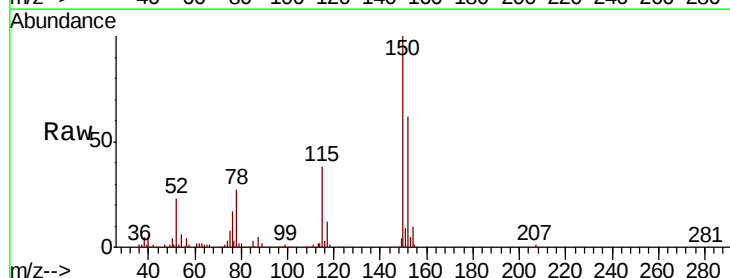
Tgt Ion:152 Resp: 144109

Ion Ratio Lower Upper

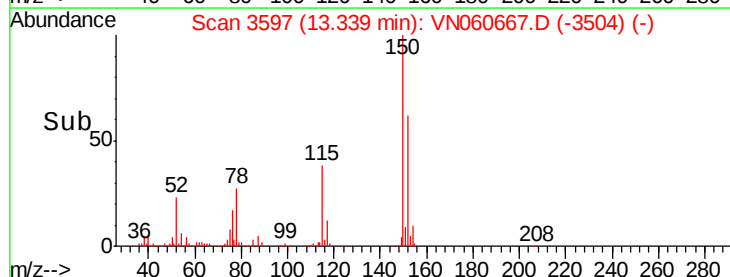
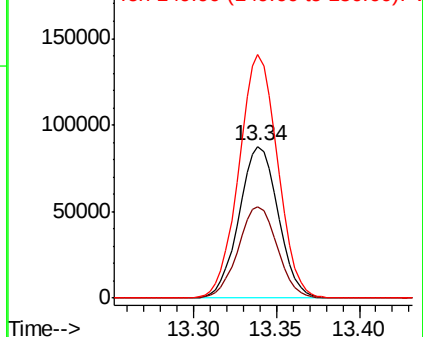
152 100

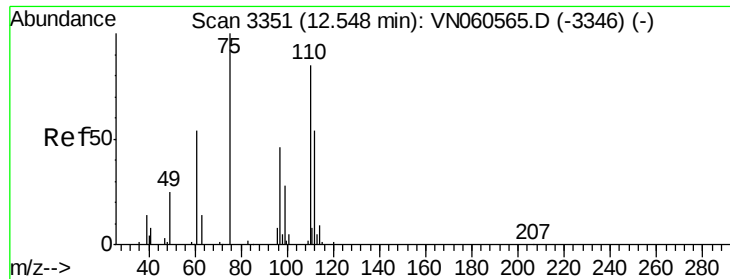
115 60.2 30.2 90.6

150 159.1 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.726 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

Instrument :

MSVOA_N

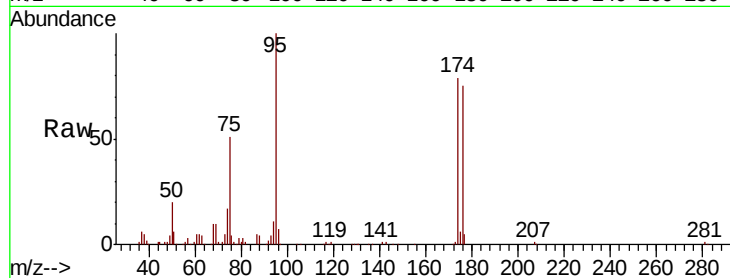
ClientSampled :

Tot Ion: 75 Resp: 79998

Ion Ratio Lower Upper

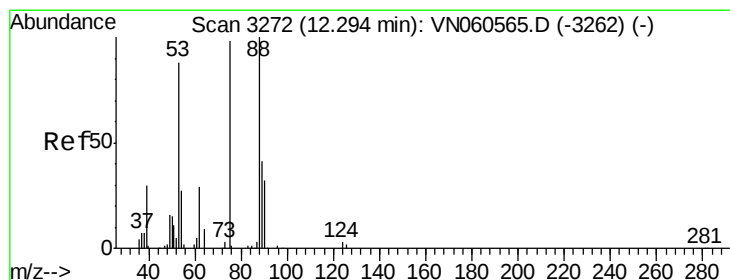
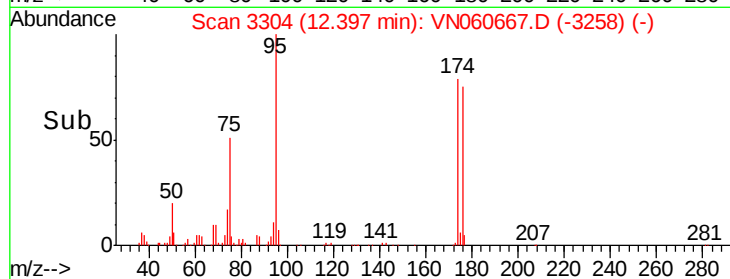
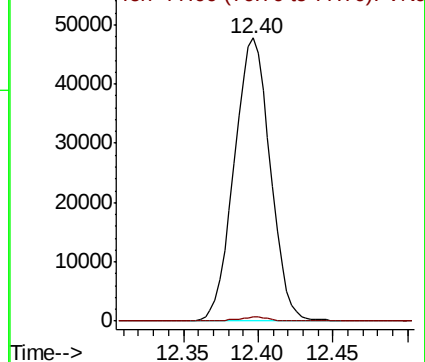
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.073 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060667.D

Acq: 24 Mar 2020 13:20

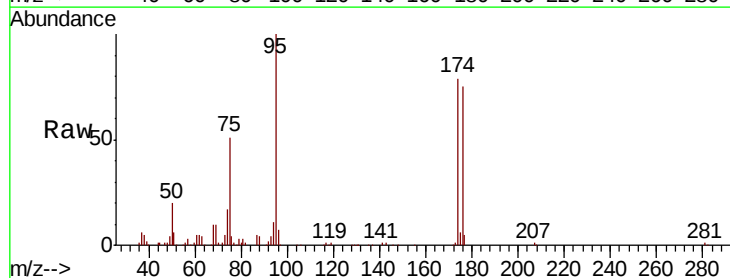
Tgt Ion: 75 Resp: 79998

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

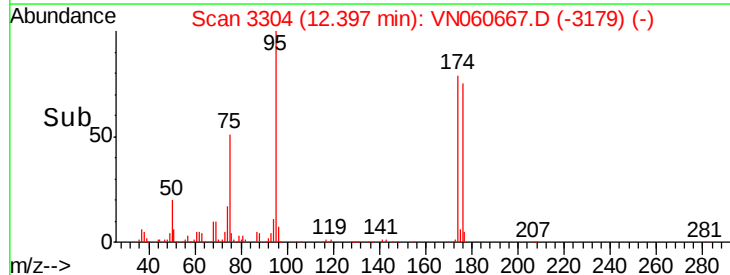
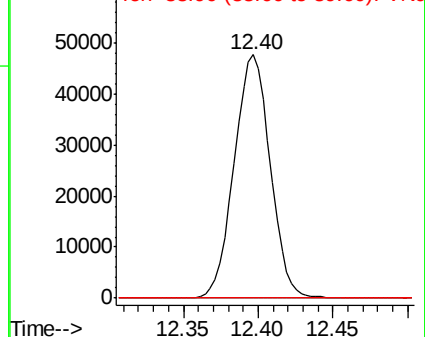
89 0.0 34.8 52.2#

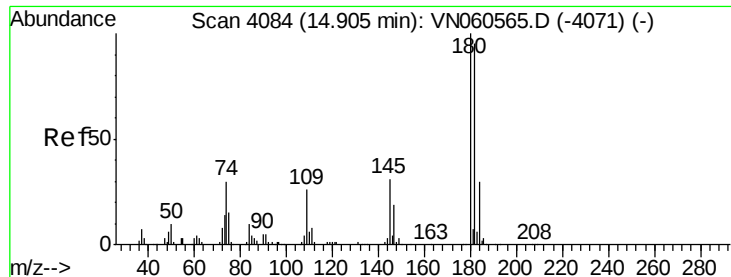


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

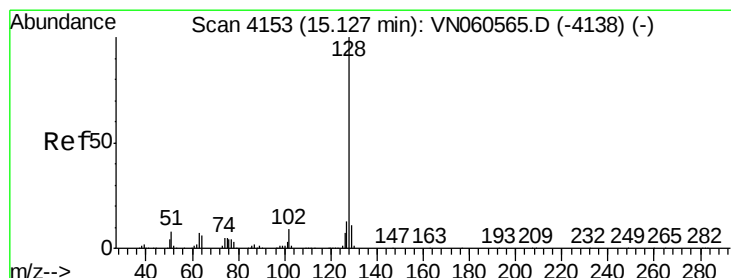
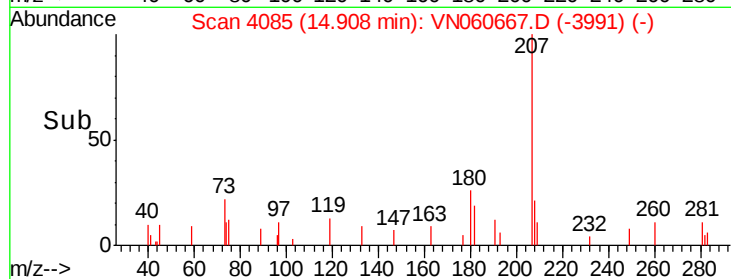
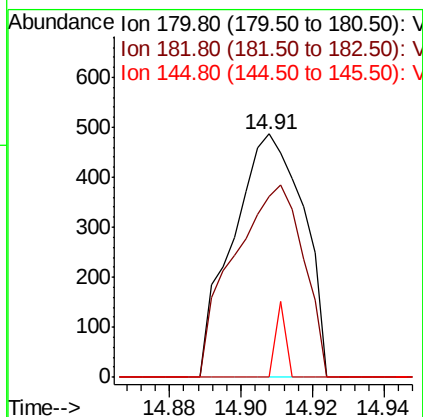
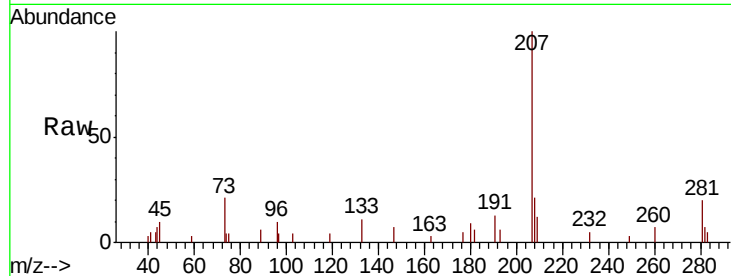




#93
 1,2,4-Trichlorobenzene
 Concen: 0.246 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060667.D
 Acq: 24 Mar 2020 13:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 663
 Ion Ratio Lower Upper
 180 100
 182 78.4 47.9 143.8
 145 4.4 15.4 46.2#



#95
 Naphthalene
 Concen: 0.245 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN060667.D
 Acq: 24 Mar 2020 13:20

Tgt Ion:128 Resp: 1987
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.8 13.2#

